A.N.A.R.T.S. NEWS BULLETIN FOR 14TH MAY 2006.

ANARTS now has a web site at www.anarts.com.au where information

about the society can be found, as well as the weekly broadcast texts.

Views expressed in this news bulletin are not necessarily

those of the Broadcast Officer, the Relay Officers, or of

the Society.

Items in this broadcast include

1. Cols column

2. News item re Broadband over Power Lines

3. IPS REPORT

4. VK2SG RTTY DX report

5. ARRL DX News

6. Anarts Information

Col's Column

Propagation of Radio Waves.

The effect of the Ionosphere on the Sky Wave.

The Radio transmitted from the antenna reaches the Ionosphere at an

oblique angle. It is not 'Reflected' in the same sense that a ray of

light is reflected from a mirror. The wave enters the ionosphere and

is bent by 'Refraction', gradually bending more and more as it enters

deeper into the ionosphere and then emerges from the layer and is

returned to earth.

A good example is: A straight stick is held at an oblique angle in a

pool of water. The stick appears to be bent where it enters the water.

This is because the light rays travelling from the stick to the eye

bend at the surface of the water.

Light rays, passing from a more dense medium to a less dense medium

are bent away from the normal. Conversely, rays passing from a less

dense medium to a more dense medium are bent towards the normal.

The reason for the bending of the light rays lies in the fact that

the velocity of the ray in the water. which is the denser medium, is

less than air.

As the wave train approaches the junction of the water

and air, the upper of each wave fron enters the air before the lower

part. Because of the lower density of the air medium, the wave front

moves at increased velocity, resulting in the entire wave being bent

Away from the normal as it enter the air.

The degree of bending taking place at the juntion of the two media is

determined by the relationship known as the 'Refractive Index'.

In the water-air example, the refractive index, water to air, equals

Velocity of light in water, over the Velocity of light in air.

Next week we look at the analogy of the water-air media to that of

the propagation of radio waves through the ionosphere.

I would like to remind all our listeners/viewers, that Anarts WW

RTTY Contest is only a month away now, please consider giving it a

go this year. More on that in the very near future.

73's Col VK2CTD

NEWS ITEM

An ARRL-sponsored independent engineering study to

accurately quantify

the interference potential of Broadband over Power Line
is set to start

in the very near future. In addition, the League soon
will elicit

interference reports from amateurs in communities where
BPL trials are

known to be under way.

'We're contracting for an independent measurement of
potential interaction

between BPL and Amateur Radio,' said ARRL CEO David
Sumner, K1ZZ. The

study--to be conducted under the auspices of certified
professional

engineers--not only will examine and document how BPL
might affect HF and

low-VHF amateur operation but how Amateur Radio operation
could affect BPL

systems.

The ARRL-sponsored engineering study should be completed within
a couple

of months, Sumner said.

In a related initiative, the ARRL will be contacting
amateurs in about a

half-dozen US communities where BPL field trials now are
in progress. The

League will ask amateurs to listen on the air for any
increase in noise

level that might be related to the BPL trial.

The ARRL's solicitation includes a form to document
suspected instances of

harmful interference from BPL. Sumner says the League
hopes the effort

will result in a 'body of technical evidence that will
protect the Amateur

Service from this source of potential interference.'

In a related development, a California technology company
this month wrote

the FCC's Office of Engineering and Technology to refute
ARRL assertions

that BPL necessarily poses a severe interference
potential. Corridor

Systems http://www.corridor.biz says its 'breakthrough'
BPL system,

operated under existing Part 15 rules, uses frequencies
in the 2 to 20 GHz

range, will not interfere with HF and low-VHF reception
and can provide up

to 216 MB per second throughput.

from the ARRL Letter vol. 22, no. 48

IPS Weekly Solar and Geophysical Report 5/11th May

SUMMARY

Date 05 06
07 08 09
10 11

10cm flux 87 87
86 85 83
78 76

AFr index 8 14 17 5
2 4 18 est

Aaus index 7 19
12 4 3
3 13 est

T index 47 30
34 28 22
29 38

Solar flare activity was very low all week.

Geomagnetic activity observed for the Australian Region
was quiet

to unsettled on 5th quiet to minor storm on 6th quiet to
active

with isolated minor storm periods at high latitudes on
7th.

Geomagnetic activity was quiet to unsettled with isolated
active

periods on 8th quiet on 9/10th and quiet to active on
11th.

Southern Australian Ionospheric F2 critical frequencies
were enhanced

20 to 35 percent on 5th enhanced 15 percent to near
predicted on 6th

and near predicted for the remainder of the period.

Forecast for 12/18th May

Solar activity should be low.

Geomagnetic activity should be active 13/14th May with
minor storm

levels on 12th and quiet to unsettled on other days.

Frequencies should be briefly depressed after local dawn
13/14th

depressed to 15 percent on 12th and near predicted
monthly values

on other days.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

VK2SG RTTY DX NOTES FOR WEEK ENDING 11 MAY

This week our information came from AA5AU GU0SUP I5FLN
K3GP 425-DX

nd the Central Europe clusternode DB0SPC. Thank you all.

Friday 5

0032-14084 YK1BA

0423-14080 VK9NS

0426-14086 XE3ISS

0509-14084 HK4QHD

0553-14082 4L4KK

0658-14083 JW0HZ

0835-18103 KH2/JK1FNN

0930-18103 A45XR

0948-21083 JY4NE

1134-14087 3B9FR

1351-14090 BI3H

1441-14081 JY4NE

1452-14091 EW1KP

1515-14083 KH2/JK1FNN

1521-14087 VR2XMT

1526-14087 JW0HZ

1528-14090 4K5D

1539-14084 EX8AI

1612-21082 JY4NE

1721-18102 A45XR

1733-18102 TI8CBT

1736-14081 5Z4ES

1757-14092 A71EM

1800-14088 CN8YZ

1801-10137 JW4GHA

1828-14083 CU6NS

1847-21091 SV9CVY

1908-10142 7X0RY

1910-14092 VR2XLN

1916-14098 OX3DB

1949-10143 CN8NK

1959-14085 KP4ED

2040-21082 EA9IB

2047-21080 WP3C

2055-14080 VK9NS

2116-10147 SV9CVY

2134-14085 TF3GC

2135-14081 YV5DSL

2140-14084 FG5GK

2214-10133 WP3C

2305--7040 WP3C

2335-14084 CN8KD

Saturday 6

0004-14085 CN8KD

0118-10144 SV9CVY

0512-14080 VK9NS

0546-18107 VR2XMT

0548-18108 A71EM

0800-18103 VK6DU

0818-18102 VQ9NL

1217-18105 P29SS

1252-14090 DZ50C

1254-18107 VR2XMT

1314-14080 4K5D

1326-18102 6W/HA3AUI

1350-14080 XX9BB

1351-18106 YB0JIV

1353-14083 BI3H

1416-14085 VR2XMT

1433-21087 ZS2DL

1439-14084 TK5MH

1442-14085 CU5AM

1445-14081 BV50CRA

1619-21085 ZP4KFX

1626-14098 JY4NE

1629-18103 A71EM

1641-18102 HP1JRA

1654-18102 TI8CBT

1709-14089 YB0EIN

1727-18103 CN8KD

1731-14082 TR8CA

1741-18103 A45XR

1742-21082 HC2NGF

1828-21080 LU6DAT

1839-14091 A45XR

1840-14081 EA9IB

1911-14086 EK6YL

1951-14080 BI3H

2011-10143 CN8NK

2014-21082 WP3C

2031-14092 TA1FA

2057-10143 4L4KK

2103-14080 7X0RY

2104-14085 VR2XMT

2110-14103 E21YDP

2113-10146 SV9CVY

2122--7041 7X0RY

2130-14093 4M5RY

2132-14090 LT0H

2139-14082 TG9SM

2141-14099 WP3C

2143-14090 CN8KD

2204-14088 HR2/LU1DY

2210-14085 EK6YL

2301-14090 XE1OK

2313-14091 NP3D

2316-18141 FM1HN

2331--7042 TA1DX

2344-14098 VK6HD

2355--7044 CM2ZT

2358-14081 TG9SM

Sunday 7

0008--7035 NP3D

0010--7034 PT7AZ

0017-14086 SV9CVY

0025--7035 CN8KD

0032--7033 WP3C

0033--7040 7X0RY

0035-14092 TG9SM

0043-14084 OA4DJW

0051--7044 CM2BT

0102--7046 4M5CY

0129--7048 HK4QHD

0157--7045 PY2NY

0227--7041 HR2/LU1DY

0238--7044 CO2UG

0629-21083 DV1JM

0630-14081 7X0RY

0659-14079 VK1AHS

0718-21082 7X0RY

0837-21075 VR2BG

0927-28083 UN8PO

1032-14082 KP4AH

1045-28092 YB0COU

1122-28081 7X0RY

1200-21091 9Q/ON7KEC

1223-14086 CN8KD

1248-14095 EK6YL

1317-14084 CO2GL

1358-14086 ER3ZZ

1415-14085 EK3GM

1420-14081 VP5JM

1422-14078 KP4JRS

1424-14086 EU8RZ

1517-14086 TG9SM

1533-21083 ZP4KFX

1610-14102 E21YDP

1634-14089 KP4AH

1647-21092 HK4QHD

1708-14083 4M5RY

1709--7035 EK6YL

1716-14078 DV1JM

1718-14096 EA8ANE

1733-14105 VR2XLN

1740-14104 YV5AAX

1804-14087 4X6UU

1820-14094 TA1FA

1826-18103 JW4GHA

1828-21082 HC2NGF

1845--7042 Z32PT

1847--7033 4X6UU

1858-14098 WP3C

1918-14080 ER3ZZ

1919-14103 TA1DX

1920-14097 S58N

1921-14081 LU2EE

1927-10144 CN8NK

1931-14082 TG9SM

1938-14098 EU1DX

2132-14087 V44KJ

2139-10138 DS5RYB

2202-10138 HL3IB

Monday 8

0507-14085 4K5D

1025-14080 XX9BB

1031-14080 P29ZAD

1139-14094 9K2CQ

1215-18106 YB0COU

1223-14080 BD7KLO

1257-18102 JW0HZ

1731-24900 TR8CA

1819-10141 EK6TA

1914-10140 JW4GHA

1927-14089 A45XR

2020-14082 OX3JZ

2113-14083 OX3DB

2133-14093 SV9CVY

2211-14091 CU3AF

2216-14085 FJ5DX

2238-14086 EK6TA

2308-14080 XE1GRR

Tuesday 9

0824--7040 JT1CO

1033-14086 CU6NS

1147-14084 JW0HZ

1151-14082 XX9BB

1159-14084 BD7KLO

1204 14085.8 YB0COD

1232-14087 VR2XLN

1318-14085 XE3IS

1356-18107 VR2XMT

1533-14082 XX9BB

1718-14087 9M2MT

1751-10140 T9/9A6PJZ

2038-14081 CO2GL

2048-14079 Z31GX

2110-14083 HK6PSG

2123-14086 OX3DB

2204-18104 FM5AA

2225-14087 HC1JP

2311-14080 VQ9NL

Wednesday 10

0314-14087 3B9FR

0615-14082 KH6ZM

0924-21083 XX9BB

1023-21084 P29SS

1050-21085 3B9/ON4LAC

1150-21088 E21YDP

1217-21084 YB0COU

1240-14081 BD7KLO

1308-18107 VR2XMT

1337-14083 XW8Z

1341-14086 CU6NS

1352-14091 DS1OFE

1425-18105 9V1CW

1441-18104 FM5AA

1458-14092 SV9CVY

1543-18105 4L4KK

1614-18103 TI8CBT

1733-14087 9J2CA

1817-21082 TU5JM

2007-14084 EW3BF

2106-14088 V44KJ

2218-14088 XE1ISS

2252-14082 EA6AZ

2316-14083 VR2BG

2327-21080 HC2NGF

Thursday 11

0021-14089 SV9CVY

0022-14085 NP3D

0445-14083 HP1JRA

0621-14083 XX9BB

0720-14090 VK6HD

0758-14086 IS0AFM

1139-14087 3B9FR

1152-14086 HK4QMH

1205-14084 BD7KLO

1231-14081 VK2KM

1255-14096 6K2DIO

1314-14095 KP4ED

1343-18107 VR2XMT

1356-14081 HS0ZBS

1407-14086 6K2DFG

1422-14086 DS3DGA

1426-21087 3B9FR

1535-14087 TA1EE

2009-14080 CN8YZ

2045-14083 TI8CBT

2055-14085 FG5GK

2111-14082 4Z4TL

2122-14084 S58M

2212-14085 LX1DA

2216-14089 A45XR

2243-14084 FM5AA

2248-14080 ST0RM

The VK2SG RTTY DX NOTES are distributed every week via the

Winlink network, and are also available on the Internet at

URL http://mailman.qth.net/mailman/listinfo/vk2sg-rtty

and the digital-dx reflector.

To subscribe to the digital-dx reflector send an e-mail

message to majordomo at mla.nifty.ne.jp as follows:

Subject:(blank) Message Body: subscribe digital-dx

For next weeks bulletin send your bandpass and notes of

interest to Don AA5AU email aa5au at bellsouth.net

Goetz Linss
DJ3IW

No OPDX Bulletin this week, so we offer the ARRL DX Bulletin in

its place.

ARLD019 DX news

TUNISIA, 3V. 3V8BB is usually QRV on 20 or 17M using SSB
around 1000z.

CHINA, BY. Yasuo JA6UBY is QRV as BY4CSS from Shanghai.
Activity is

mostly on 20 and 15M using CW and SSB. QSL direct to home
call.

THE GAMBIA, C5. Noz C5DXC is usually QRV on 15M using SSB
between

1900 and 2100z.

CANARY ISLANDS, EA8. IZ0BTV IZ7FLP EC8ADS EC8ADW and
EC8AUA are QRV

as ED8OTA from Gran Canaria IOTA AF-004 til May 14. QSL
via IZ7FLP.

MARTINIQUE, FM. Jacky F5OIU will be QRV as FM/F5OIU May 13 to Jul 1

while here on holiday. He will use mostly CW but maybe
some SSB and

digital modes as well. QSL to home call.

WALES, GW. G3KHZ and G4EDG are QRV as GW3KHZ/p from the
St. Tudwals

slands IOTA EU-106 til May 15 weather-permitting. They
are active only

on CW. QSL direct via G4EDG.

SOUTH KOREA, HL (DS). Han DS2GOO plans to be QRV as
DS2GOO/3 from Nok

Island IOTA AS-080 May 18/21. Activity will be on 80 to 6M using SSB

RTTY and PSK31. QSL to home call.

THAILAND, HS. Fred K3ZO is QRV as HS0ZAR and has been
active on 20M

using CW before 1500z and then before 1900z. QSL to home
call.

SVALBARD, JW. Roger JW4GHA is QRV from Bear Island IOTA
EU-027 til Jul.

He will place an emphasis on 6M during the last month of
his stay.

ARGENTINA, LU. LU4DXU and LW1DRH are QRV as LU1DMG from
Martin Garcia

Island IOTA SA-055. Activity is on 80 to 10M using CW and
SSB.

QSL via LU4DXU.

DENMARK, OZ. Tom DL7UZO will be QRV as OZ/DL7UZO from the Jylland

North Group IOTA EU-171 May 13/20. Activity is on 80 to 2M using CW

SSB PSK31 RTTY and WSJT. QSL to home call.

PAPUA NEW GUINEA, P2. Jerry P29ZAD is usually QRV using digital modes

on 20 or 15M around 1000 to 1400z.

SWEDEN, SM. Special callsign SK60CG is active during the month of May

to celebrate King Carl Gustafs 60th birthday. QSL via SM6JSM.

ST. KITTS AND NEVIS, V4. Ken V44KJ has been QRV using RTTY on 20M from

around 2100 to 2300z.

MICRONESIA, V6. V63SC is generally QRV on 15M after 0500z. QSL via JM1LBO.

NORFOLK ISLAND, VK9N. Jim VK9NS has been QRV using RTTY on 20M around

0430z. QSL direct.

MACAO, XX9. Savio is QRV as XX9BB and has been active on 20 and 15M

using RTTY.

THIS WEEKEND ON THE RADIO.

The CQ-M International DX Contest

Thursday NCCC Sprint CW Ladder

VK/Trans-Tasman 80-Meter Phone Contest

Feld-Hell Spring Sprint 2006

Mid-Atlantic QSO Party

Alessandro Volta World Wide RTTY Contest

FISTS Spring CW Sprint

EACW International Contest and the 50 MHz Spring Sprint will

certainly keep contesters busy this weekend. The Run for the Bacon

QRP CW Contest is scheduled for May 15. Please see May QST, pages

99 and 100, and the ARRL and WA7BNM contest websites for details.

The Society can be contacted in the following ways

To Pat VK2JPA via patleeper at optusnet.com.au or

Col VK2CTD via ctdavies at bigpond.net.au or

you can drop a line to PO Box 93 Toongabbie NSW 2146.

73’s for this week from Pat VK2JPA broadcast Officer.

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